

05/03  
01/03

#2

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/014,501

DATE: 01/04/2002  
TIME: 09:57:34

Input Set : A:\Seqlist.txt  
Output Set: N:\CRF3\01042002\J014501.raw

PS

3 <110> APPLICANT: MERKULOV, Gennady et al.  
 5 <120> TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,  
 6 NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND  
 7 USES THEREOF  
 9 <130> FILE REFERENCE: CL001177DIV2  
 11 <140> CURRENT APPLICATION NUMBER: US/10/014,501  
 12 <141> CURRENT FILING DATE: 2001-12-14  
 14 <150> PRIOR APPLICATION NUMBER: 09/813,819  
 15 <151> PRIOR FILING DATE: 2001-03-22  
 17 <150> PRIOR APPLICATION NUMBER: 09/920,048  
 18 <151> PRIOR FILING DATE: 2001-08-02  
 20 <160> NUMBER OF SEQ ID NOS: 4  
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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 25 <211> LENGTH: 2968  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: HOMO sapiens  
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 32 agccctctgc ttccctggcc gctcccaat atagccctgc tgcattttcc ctcagttactg 180  
 33 tcttggggtg tcctgggacc tgcagggtggc actgaggagc agcaggcaga gtcagagaag 240  
 34 gccccgaggg agcccttggc gccccagggtc cttcaggacg atctcccaat tagcctcaaa 300  
 35 aagggtgttc agaccagtct gcctgagccc ctgaggatca agttggagct ggacgggtgac 360  
 36 agtcataatcc tggagctgtt acagaatagg gagttggtcc caggccgccc aaccctggtg 420  
 37 tggtaaccaggc ccgtatggcac tcgggtggtc agtgaggagc acactttgaa gaactgctgc 480  
 38 taccagggaa gagtgccggg atatgcaggc tcctgggtgt ccatctgcac ctgctctggg 540  
 39 ctcagaggct tgggtgttccct gaccccagag agaagctata ccctggagca gggccctggg 600  
 40 gacccctcagg gtcctccat tatttcgcga atccaaatgc tccacctggc agggcacacc 660  
 41 tggccctga gctggccggg atctgtacac actcagacgc caccagagca cccctggga 720  
 42 cagcccccaca ttccgggag gccggatgtt gtaacagaga ccaagactgt ggagttggtg 780  
 43 atttgtggctg atcacttggc gggccagaaa taccggact tccagcacct gctaaaccgc 840  
 44 acacttggaaag tggccctttt gctggacaca ttcttccggc ccctgaatgt acgagtggca 900  
 45 ctatggggcc tggaggccctg gacccagcgt gacctggtgg agatcagccc aaaccagct 960  
 46 gtcaccctcg aaaacttccct ccactggcgc agggcacatt tgctgcctcg attggccat 1020  
 47 gacagtggcc agctggtgc tggtaacttca ttctctggc ctacgggtgg catggccatt 1080  
 48 cagaactcca tctgttctcc tgaacttctca ggaggtgtga acatggacca ctccaccaggc 1140  
 49 atccctgggag tcgccttc catagcccat gagttggcc acagcctggg cctggaccat 1200  
 50 gatttgcctg ggaatagctg cccctgtcca ggtccagccc cagccaagac ctgcatcatg 1260  
 51 gagggctcca cagacttcctt accaggccctg aacttcagca actgcagccg acggccctg 1320  
 52 gagaagccc tcctggatgg aatgggcagc tgccttcgc aacggctgcc tagcttaccc 1380  
 53 cctatggctg ctttctgcgg aaatatgtt gttggccgg gcgagcgtg tgactgtggc 1440  
 54 ttcttggatg actgcgtcga tccctgtgtt gatttttgc cctggccagct gaggccaggt 1500  
 55 gcacagtgtg catctgacgg accctgtgtt caaaatttgcg agctgcggcc gtcggctgg 1560  
 56 cagtgtcgtc taccagagg ggattgtgac ttgcctgaat tctggccagg agacagctcc 1620  
 57 cagtgtcccc ctgatgtcag cctagggat ggcgagccct ggcgtggccg gcaagctgtg 1680  
 58 tgcattgcacg ggcgttgtgc ctcttatgcc cagcgtgcc agtcaatttgg gggacctgga 1740

ENTERED

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Input Set : A:\Seqlist.txt  
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60 agctgtggc gcaaccccg tggcagttat gtgtcctgca cccctagaga tgccatttg 1860  
61 gggcagctcc agtgccagac agttaggacc cagcctctgc tgggctccat ccggatcta 1920  
62 ctctggaga caatagatgt gaatggact gagctgaact gcagctgggt gcacctggac 1980  
63 ctgggcagtg atgtggccca gcccctcctg actctgcctg gcacagcctg tggccctggc 2040  
64 ctggtgtgtatgaccatcg atgcccagcgt gtggatctcc tgggggcaca ggaatgtcga 2100  
65 agcaaatgccatgg ggtctgtgac agcaacaggc actgctactg tgaggaggc 2160  
66 tgggcacccctgactgcac cactcagctc aaagcaacca gtcctgtac cacaggcgt 2220  
67 ctccctcagcc tcctggctt attggctctg gtgatgctt gtgcccagcta ctggtaccgt 2280  
68 gcccgcctgc accagcact ctgcccagctc aagggaccca ctcgtccagta cagggcagcc 2340  
69 caatctggtc cctctgaacg gccaggaccc cccgtggg ccctgtggc acgaggcact 2400  
70 aaggctagtgc tctcagctt cccggccccc cttccaggc cgctgccccc tgaccctgtg 2460  
71 tccaagagac tccagtcata gggccagcc aagcccccac ccccaaggaa gccactgcct 2520  
72 gccgacccccc agggccgggt cccatcggtt gacccgtccg gcccaggc 2580  
73 ccccttagtgg taccctccag accagcgcctc cccgtccgtt cagtgccctc gctctaccc 2640  
74 tgacccctccg ggaggttccg ctgcctccaa gcccggactta gggcttcaag aggccggcgt 2700  
75 gcccctctgga gtccccttacc atgactgaag gcccggacta ctggccgggtt cttaaagactc 2760  
76 cgggcaccgc caccgcgtt caagcaacac tctggggacc tgccggcgtt gttcggcgg 2820  
77 gggcttgggg aggggctggg gttggacgg gattgaggaa gttccgcaca gcctgtctct 2880  
78 gctcagttgc aataaacgtg acatcttggg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2940  
79 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2968

81 <210> SEQ ID NO: 2

82 <211> LENGTH: 855

83 <212> TYPE: PRT

84 <213> ORGANISM: Homo sapiens

86 <400> SEQUENCE: 2

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88 1 5 10 15

89 Pro Leu Pro Ser Trp Pro Leu Pro Asn Ile Ala Leu Leu Ser Ile Pro

90 20 25 30

91 Ser Val Leu Ser Trp Gly Val Leu Gly Pro Ala Gly Gly Thr Glu Glu

92 35 40 45

93 Gln Gln Ala Glu Ser Glu Lys Ala Pro Arg Glu Pro Leu Glu Pro Gln

94 50 55 60

95 Val Leu Gln Asp Asp Leu Pro Ile Ser Leu Lys Val Leu Gln Thr

96 65 70 75 80

97 Ser Leu Pro Glu Pro Leu Arg Ile Lys Leu Glu Leu Asp Gly Asp Ser

98 85 90 95

99 His Ile Leu Glu Leu Leu Gln Asn Arg Glu Leu Val Pro Gly Arg Pro

100 100 105 110

101 Thr Leu Val Trp Tyr Gln Pro Asp Gly Thr Arg Val Val Ser Glu Gly

102 115 120 125

103 His Thr Leu Glu Asn Cys Cys Tyr Gln Gly Arg Val Arg Gly Tyr Ala

104 130 135 140

105 Gly Ser Trp Val Ser Ile Cys Thr Cys Ser Gly Leu Arg Gly Leu Val

106 145 150 155 160

107 Val Leu Thr Pro Glu Arg Ser Tyr Thr Leu Glu Gln Gly Pro Gly Asp

108 165 170 175

109 Leu Gln Gly Pro Pro Ile Ile Ser Arg Ile Gln Asp Leu His Leu Pro

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110	180	185	190	
111	Gly His Thr Cys Ala Leu Ser Trp Arg Glu Ser Val His Thr Gln Thr			
112	195	200	205	
113	Pro Pro Glu His Pro Leu Gly Gln Arg His Ile Arg Arg Arg Arg Asp			
114	210	215	220	
115	Val Val Thr Glu Thr Lys Thr Val Glu Leu Val Ile Val Ala Asp His			
116	225	230	235	240
117	Ser Glu Ala Gln Lys Tyr Arg Asp Phe Gln His Leu Leu Asn Arg Thr			
118	245	250	255	
119	Leu Glu Val Ala Leu Leu Asp Thr Phe Phe Arg Pro Leu Asn Val			
120	260	265	270	
121	Arg Val Ala Leu Val Gly Leu Glu Ala Trp Thr Gln Arg Asp Leu Val			
122	275	280	285	
123	Glu Ile Ser Pro Asn Pro Ala Val Thr Leu Glu Asn Phe Leu His Trp			
124	290	295	300	
125	Arg Arg Ala His Leu Leu Pro Arg Leu Pro His Asp Ser Ala Gln Leu			
126	305	310	315	320
127	Val Thr Gly Thr Ser Phe Ser Gly Pro Thr Val Gly Met Ala Ile Gln			
128	325	330	335	
129	Asn Ser Ile Cys Ser Pro Asp Phe Ser Gly Gly Val Asn Met Asp His			
130	340	345	350	
131	Ser Thr Ser Ile Leu Gly Val Ala Ser Ser Ile Ala His Glu Leu Gly			
132	355	360	365	
133	His Ser Leu Gly Leu Asp His Asp Leu Pro Gly Asn Ser Cys Pro Cys			
134	370	375	380	
135	Pro Gly Pro Ala Pro Ala Lys Thr Cys Ile Met Glu Ala Ser Thr Asp			
136	385	390	395	400
137	Phe Leu Pro Gly Leu Asn Phe Ser Asn Cys Ser Arg Arg Ala Leu Glu			
138	405	410	415	
139	Lys Ala Leu Leu Asp Gly Met Gly Ser Cys Leu Phe Glu Arg Leu Pro			
140	420	425	430	
141	Ser Leu Pro Pro Met Ala Ala Phe Cys Gly Asn Met Phe Val Glu Pro			
142	435	440	445	
143	Gly Glu Gln Cys Asp Cys Gly Phe Leu Asp Asp Cys Val Asp Pro Cys			
144	450	455	460	
145	Cys Asp Ser Leu Thr Cys Gln Leu Arg Pro Gly Ala Gln Cys Ala Ser			
146	465	470	475	480
147	Asp Gly Pro Cys Cys Gln Asn Cys Gln Leu Arg Pro Ser Gly Trp Gln			
148	485	490	495	
149	Cys Arg Pro Thr Arg Gly Asp Cys Asp Leu Pro Glu Phe Cys Pro Gly			
150	500	505	510	
151	Asp Ser Ser Gln Cys Pro Pro Asp Val Ser Leu Gly Asp Gly Glu Pro			
152	515	520	525	
153	Cys Ala Gly Gly Gln Ala Val Cys Met His Gly Arg Cys Ala Ser Tyr			
154	530	535	540	
155	Ala Gln Gln Cys Gln Ser Leu Trp Gly Pro Gly Ala Gln Pro Ala Ala			
156	545	550	555	560
157	Pro Leu Cys Leu Gln Thr Ala Asn Thr Arg Gly Asn Ala Phe Gly Ser			
158	565	570	575	

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159 Cys Gly Arg Asn Pro Ser Gly Ser Tyr Val Ser Cys Thr Pro Arg Asp  
160 580 585 590  
161 Ala Ile Cys Gly Gln Leu Gln Cys Gln Thr Gly Arg Thr Gln Pro Leu  
162 595 600 605  
163 Leu Gly Ser Ile Arg Asp Leu Leu Trp Glu Thr Ile Asp Val Asn Gly  
164 610 615 620  
165 Thr Glu Leu Asn Cys Ser Trp Val His Leu Asp Leu Gly Ser Asp Val  
166 625 630 635 640  
167 Ala Gln Pro Leu Leu Thr Leu Pro Gly Thr Ala Cys Gly Pro Gly Leu  
168 645 650 655  
169 Val Cys Ile Asp His Arg Cys Gln Arg Val Asp Leu Leu Gly Ala Gln  
170 660 665 670  
171 Glu Cys Arg Ser Lys Cys His Gly His Gly Val Cys Asp Ser Asn Arg  
172 675 680 685  
173 His Cys Tyr Cys Glu Glu Gly Trp Ala Pro Pro Asp Cys Thr Thr Gln  
174 690 695 700  
175 Leu Lys Ala Thr Ser Ser Leu Thr Thr Gly Leu Leu Leu Ser Leu Leu  
176 705 710 715 720  
177 Val Leu Leu Val Leu Val Met Leu Gly Ala Ser Tyr Trp Tyr Arg Ala  
178 725 730 735  
179 Arg Leu His Gln Arg Leu Cys Gln Leu Lys Gly Pro Thr Cys Gln Tyr  
180 740 745 750  
181 Arg Ala Ala Gln Ser Gly Pro Ser Glu Arg Pro Gly Pro Pro Gln Arg  
182 755 760 765  
183 Ala Leu Leu Ala Arg Gly Thr Lys Ala Ser Ala Leu Ser Phe Pro Ala  
184 770 775 780  
185 Pro Pro Ser Arg Pro Leu Pro Pro Asp Pro Val Ser Lys Arg Leu Gln  
186 785 790 795 800  
187 Ser Gln Gly Pro Ala Lys Pro Pro Pro Arg Lys Pro Leu Pro Ala  
188 805 810 815  
189 Asp Pro Gln Gly Arg Cys Pro Ser Gly Asp Leu Pro Gly Pro Gly Ala  
190 820 825 830  
191 Gly Ile Pro Pro Leu Val Val Pro Ser Arg Pro Ala Pro Pro Pro Pro  
192 835 840 845  
193 Thr Val Ser Ser Leu Tyr Leu  
194 850 855  
197 <210> SEQ ID NO: 3  
198 <211> LENGTH: 17138  
199 <212> TYPE: DNA  
200 <213> ORGANISM: Homo sapiens  
202 <220> FEATURE:  
203 <221> NAME/KEY: misc\_feature  
204 <222> LOCATION: (1)...(17138)  
205 <223> OTHER INFORMATION: n = A,T,C or G  
207 <400> SEQUENCE: 3  
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209 gagatgataa taacactatc tgccttacat gacaattgaa ttgaattttt tttttttttt 120  
210 ttagactaa tctcactctg tcgcccagc tggagtgcag tggcgtgatc ttggctca 180  
211 gcaacctcca cctccccagt tcaagcgtt ctcgtgcctc agcttccga gtagctggga 240

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212 ttacaggcac acactaccac gcccggctaa tttagaattt aaataattt tgtacagtat 300
213 ctttagtacag gacctgacat tataaacaat gagtggcagc cattcttatt taatcagtcc 360
214 taacaaagtt cataaaagtg agactgtgt tgcttagctt ttcccttagg gcctggatac 420
215 ccccagcccc catgacacac aataggggcc aaatgaatgt gttgtaaaa aataaaaaac 480
216 aaaaaaacaaa aaagaacatg ctgggattcc ttgacagggt cgtgaagcaa actgaatgtg 540
217 aatgcacaga tggaaatgtg ccagacagtc attccaagca gaatgtgcaa agactcagtc 600
218 cacagggaat gcgaagtgcc agggctagtc tcaggagaaa ctggctcaga agagacagct 660
219 ctcagggagg gctaaagttag gaaagaggct agaaaggac caggtgaggg aaggctctga 720
220 aggccaagcc caagagttct gcctgtctgg caggcagcag ggcctcttga gtttcttggg 780
221 caaagagtgg ctgcttcctg ggttaagggtt cctgtggaaa atccctgaca actgtgtaga 840
222 gacatgtcgt gagggtatggc agggagcata gtgaacttagg tttgtggtt ggaatcaggg 900
223 cccctgggtt ccagccaagt tggattgtt actatctgtg tgacttttag agtcaactca 960
224 ctttctcaa ctgtaaagtg gggatagcaa cagtgtatgt cgtatctgcc tgctcaactc 1020
225 tcagcctcac tgtgagaacc aaataagatg atttacagga aagtgc当地 gagaaggtag 1080
226 gctgatatacc gcttggagag agcctggagg gtgcattcc tcacagagtt 1140
227 ggggagggag gcaccctcgc cctccagggg tttccttgg ccaacccagc ctcctccaac 1200
228 acgcggaaat tgcaggcct ggccacttca gacaggaaac gctgtccagt tccccttctt 1260
229 tcccgctcg ctcccggtt ggcgctaaacg cccacccccc aacagc当地 cccgctggcg 1320
230 gatattctgc accgcggctg cccgctcctg cgccgcgtgc tttgtccggc ctgcgtggg 1380
231 tgccaggcac ccgagacgccc cgacttccat gtgtccggc cgctggactg cgaggccgtg 1440
232 tactgctggc cgtgtctggc cgacatgccc caggggtggc cggctctgc当地 gcccggc当地 1500
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237 ggagggggtcc ggacctggc当地 cggggtaag gcgc当地 cccgc当地 1800
238 ccggctccca ctccgc当地 ag ttcggggaa gcggtagcgc tgagc当地 acgtg 1860
239 ggccgtgtcc cgc当地 cccga ggcaccggc当地 gc当地 cggc当地 gggggctt当地 ccggggggccgg 1920
240 agcttggctt gggccgggtt gggaggggcc当地 gggccgggccc当地 gggccctggg ggccglocal 1980
241 cgctgtggg ttctccgagg cgacctggcc gccc当地 cccgc当地 cctccglocal ctgtccgca 2040
242 cttgctgccc tgc当地 cccggc当地 cggagc当地 cgc当地 ctgc当地 atgc当地 2100
243 tggggctctt gggc当地 cgggccc当地 agccctctgc cttccctggcc gctcccaa ataggtagt 2160
244 cttccgc当地 tggc当地 gggggccggc当地 tggaggggatgtg gtc当地 cgggaa gtccgaaaggc 2220
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246 tggc当地 cggc当地 tggc当地 cggccggctt gacttggc当地 tggggtaaa agagaaggag 2340
247 gggggatgc当地 ggc当地 cccctt gc当地 ccttgc当地 tggc当地 atcccttgc当地 cctgc当地 gaca 2400
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256 gcatgagggtt ttttagggag gtgggggggtt ttgcactgtt caccctggaaa tggc当地 tcc 2940
257 tggcatctcc gatgtgagcg aaggggagggg tgagcggc当地 cccggccaca aggttagt 3000
258 cagtctcgag agggggcgtt cctgaaggtagg gggaggagtg attggggaggg agtgggaaacc 3060
259 gccc当地 gggggc当地 ctgtgagaac ctgggattttt ccggaggggg acaaggaggg ccacaggctg 3120
260 cgcaagccga aagtcttctt tggggacttg tgaatgggtt ggtgggtggaa aaggcataaaa 3180

```

→ Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
explanation is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:294 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:380 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
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L:387 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
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L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:397 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:398 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:407 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

VERIFICATION SUMMARY

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DATE: 01/04/2002

TIME: 09:57:35

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01042002\J014501.raw

L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3